

EASY-Z NOTES MOBILE APPLICATION IN
ANDROID PLATFORM
(GPS FEATURE)

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I/We* hereby declare that I/We* have checked this thesis/project* and in my/our* opinion, this thesis/project* is adequate in terms of scope and quality for the award of the degree of *Doctor of Philosophy/ Master of Engineering/ Master of Science in Graphic & Multimedia Technology.

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I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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ABSTRAK

Terdapat beberapa isu apabila dikaitkan dengan aplikasi mudah alih. Ia bergantung kepada kehendak pengguna, sebagai contoh, tetapan aplikasi mudah alih tersebut. Untuk aplikasi Nota mudah alih, komplikasi yang berkait rapat ialah had untuk fungsi-fungsi dalam aplikasi tersebut. Antaranya ialah warna tema, jenis-jenis nota, dan keselamatan untuk simpanan nota. Warna tema sepatutnya dipelbagaikan untuk menjadikan aplikasi nota mudah alih tersebut menarik untuk kegunaan pengguna. Pengguna perlu disediakan dengan pelbagai pilihan untuk jenis-jenis nota yang akan dibuat. Aplikasi mudah alih tersebut seharusnya menyediakan pelbagai jenis nota untuk pilihan pengguna, bukan hanya nota dalam bentuk teks dan senarai sahaja. Jadikan aplikasi nota mudah alih lebih dengan pelbagai fungsi dan sistem kekunci juga seharusnya diimplikasikan dalam keselamatan penyimpanan nota-nota. Apabila sistem keselamatan nota tidak diambil kira, kemungkinan untuk kehilangan nota secara automatik akan berlaku apabila peranti yang digunakan oleh pengguna berlaku sebarang komplikasi. Fungsi sandaran dan memulihkan nota boleh dilaksanakan dalam aplikasi nota mudah alih. Nota Easy-Z akan dibina untuk mengatasi sebarang bentuk kekangan dan had untuk fungsi-fungsi dalam aplikasi nota berdasarkan keperluan pengguna dan akan diuji sama ada ia memenuhi keperluan pengguna. Keperluan pengguna yang telah dikumpul akan dianalisa untuk membina aplikasi nota mudah alih yang lebih baik. Pembinaan aplikasi nota mudah alih menggunakan sumber kod dalam komputer. Sumber kod yang sama akan digunakan dalam implimentasi aplikasi nota mudah alih boleh diaplikasikan dalam beberapa fungsi yang sama bentuk, dan ia akan jadi mudah untuk penjimatan masa dalam pembinaan lengkap aplikasi nota mudah alih. Aplikasi Nota Easy-Z mempunyai pelbagai warna tema di mana pengguna boleh memilih berdasarkan kehendak pengguna. Jenis-jenis nota yang diimplikasikan ialah nota teks, lukis, senarai nota dengan GPS, dan gambar. Pengguna boleh membuat pelbagai nota. Nota Easy-Z disediakan dengan fungsi sandaran dan memulihkan nota-nota di mana pengguna boleh menyimpan data nota dalam kad SD. Fungsi yang dititikberatkan dalam Nota Easy-Z ialah GPS yang diimplimentasikan dalam jenis senarai nota dimana pengguna boleh menyimpan lokasi yang telah dikesan oleh sistem GPS untuk pengguna lihat semula tanpa pengguna perlu mencari semula lokasi yang hendak dituju apabila membuka fungsi senarai nota. Masa akan dikurangkan dan sesuai untuk pengguna dalam penggunaan aplikasi Nota Easy-Z mudah alih.

ABSTRACT

There are some issues when it comes to some mobile applications. It is because the differentiation of users' desire, for example is the preference of that application. For notes mobile application, the complication found is limitation of its features. The limitations are color theme, type of notes, and notes security. Theme should be in variety color for user to make more choice in creating interesting notes. User needs to create different type of notes. The application should provide more type of notes that not only contain text or list notes. Make it more in variation and locking system needs to be implemented for notes security. When there is no security, the notes created can be easily being deleted automatically when the complication of device occur. The backup and restore features can be applied. The Easy-Z Notes will be developed to overcome any form of constraints and limitations based on user requirements and will be tested whether it fulfilled the requirements. The user requirements gathered will be analyzed to develop better notes mobile application. The development of notes mobile application used some source codes. Same source code can be applied on certain functions that have the same pattern and it becomes easier and reduce time taken in completing the notes application development. Easy-Z Notes application consists of more color themes where user can choose based on their needs. The type of notes implemented are text, draw, to-do-list with GPS, and photo notes. User can create any type of notes. Easy-Z Notes contributes with backup and restore function where user can save the notes data in SD card. The notable for Easy-Z Notes is GPS feature in to-do-list notes where user can easily save the location detected by GPS for user review later without need to search the location whenever user open the to-do-list notes. Time will be reduced and convenient for user in using Easy-Z Notes mobile application.

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CHAPTER 1

INTRODUCTION

The overview of project will be discussed in this chapter. First section of this chapter explains the project's background. The second section will be problem statement of the project. The following section states the objectives of the project and followed by the fourth section which deliberates on the project scope.

1.1 Background of project

Mobile application is defined as a software application or service developed specifically for use on small, wireless computing devices such as smartphones and tablets, rather than laptop or desktop computer. Notes is a mobile application system that will be created for users in all ages to manage their notes very well just through their device such as smartphone.(Kai, 2017)

Note looks like hiring a personal assistant which is a little bit of tedious job and can be such a reminder for users. It will be a problem if user do manually which means notes on papers rather than using an application which is much easier. It is because the papers will be easily being torn or missing. There will be the case where user need to write notes on repeatedly and it will be wasting time. Moreover, user will need more papers in notes repeatedly. It will also become troublesome to bring along anywhere in pockets. The best option is to have the Notes application installed in mobile phone.

Notes application can be a personal assistant to help user in remembering the personal work that user need to complete for the day. It also reminds about the reminder that have being already set for the day. User can make the reminder

for this application by setting alarm that can be repeated daily, monthly or yearly. It is one of the ultimate applications in creating the notes and reminders in mobile phone and helps user in organizing the notes in a simple way. User will be able to finish all the tasks that already be indicated without forgetting any one of them. The application came out with some features that really help the user to make the notes in many ways such as by using handwriting or drawing, video recording and type manually. Most of sticky note applications which amazing quick memo have some basic features. They can be accessed quickly at anytime and anywhere.

Easy Z Notes Android application is a user friendly because it can be customized according to the user needs. It consists color, more features on type of notes, etc. It will be saved safely. Besides, it is not only can save, but it also can be edit, delete, input with picture. Easy Z Notes can be a good alternative to paper for making any notes.

1.2 Problem Statements

All the applications have their own problem statements when they were created for the new version. At that time, there are notes applications that only allowed the user to make simple notes in words that only can be edit and save only. The user cannot make the notes become interesting, for example by applying some colors, and input with pictures. The limitation of the features from previous application will make the application looks simply.

There are some applications that provide the color pastel features only that may seem uninteresting, thus some bright colors may be applied as well in Easy-Z Notes. Besides, the functions should be in variety types to make the notes become more attractive and uses, not only limitation to some features. Users feel hard when they already make the list of the necessary things that they need, then they need to search the nearby location in other apps to shop urgently. For example, a mother made a list for shopping groceries, then she needs to find the nearby shop in other application, thus Easy-Z Notes provide GPS searching function in features. Other than that, share, backup and restore notes will be needed in the application to share and store the notes from being lost.

Based on the limitation of features, the current applications may really does not contribute much to user. In order to improve the current application, it is

relevant to develop Easy Z Notes with several new features that will help user to manage their notes in alternative way.

1.3 Objectives

The objectives of the project are listed as below:

- i. To study the production of the application that can be easily modified to overcome any form of constraints in a real situation.
- ii. To develop the Easy-Z Notes application in applying the features from current application with the requirement gathered including in GPS function.
- iii. To test Easy-Z Notes Application achieved the objectives and met with user requirements collected through acceptance testing during the project.

1.4 Scope

The scopes of the project are listed as below:

- i. System Functionality
 - The Easy Z Notes application can note the important things which is very helpful for user as a reminder with more features provided, so that the user can be modify their notes based on their needs.
- ii. System User
 - The Easy Z Notes application is available for user from all ages including children which are the students in primary school around 11 years old and adults and this application is available for android users only.
- iii. System Platform
 - The android application will generate the notes that the user already noted on in Easy Z Notes application.
- iv. System Data
 - The Easy Z Notes application will be developed by gathering data from the existing applications and the requirements based on user needs for the features in the application.

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